

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION
SHU-112

Effective Date: February 1, 2014
Reevaluation Date: **January 2017**

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

Fabric-Shield™ Pull-Down Shutter manufactured by
Wayne-Dalton, a Division of Overhead Door Corporation
3395 Addison Drive
Pensacola, FL 32514
(850) 474-9890

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation.

PRODUCT DESCRIPTION

Fabric/Frame: The fabric storm panel is a 0.0402" thick PVC coated woven polyester fabric sheet. Fabric sheets shall have minimum properties and be assembled as specified in the approved drawings. The aluminum extrusions used in construction of the frame shall be either aluminum alloy 6005-T5 or 6063-T5.

Fasteners: All fasteners shall be zinc coated, galvanized, or stainless steel. The fabric storm panel system may be mounted using fasteners listed on the approved drawings. The fasteners shall be spaced a maximum of 2.5 inches from the top and 3 inches from the bottom. The spacing of the additional fasteners shall be determined by the mounting condition, type of fastener and wall construction material shown on the anchor schedules.

LIMITATIONS

Design Drawings: The fabric storm panels shall be installed in accordance with Drawing No. 13-WDF-03, titled "Fabric-Shield Pull-Down Shutter", sheets 1 – 7 of 7, dated May 29, 2013, signed and sealed by Frank L. Bennardo, P.E. on May 30, 2013. The stated drawings will be referred to as "approved drawings" in this evaluation report. A copy of the approved drawings shall be available at the job site.

Wall Framing Construction: The fabric storm panel may be mounted to the following types of wall framing construction:

- Grout-filled concrete masonry units (CMU), (minimum C-90);
- Wood (minimum Southern Pine lumber); or
- Concrete (minimum 2,899 psi).

Product Identification: The fabric storm panels shall be marked with a minimum of one label per panel. The label shall specify the manufacturer's name, panel, size, compliance with ASTM E 330, and compliance with ASTM E 1886, and ASTM E 1996.

Impact Resistance: This assembly satisfies the Texas Department of Insurance's criteria for protection from windborne debris in both the **Inland I zone** and the **Seaward zone**. The fabric storm panels passed Missile Level D specified in ASTM E 1886-02/1996-02. The fabric storm panel assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Maximum Shutter Size: 81 inches wide x 98 inches high

Allowable Design Pressure: The maximum allowable design pressure is 66 psf.

INSTALLATION INSTRUCTIONS

General Installation Requirements: The fabric storm panels shall be installed in accordance with the manufacturer's installation instructions, this product evaluation and the approved drawings.

Anchorage: The shutter assembly shall be secured to the wall framing in accordance with the anchor schedules on the approved drawings. The embedment depth and edge distance is specified on page 3 of 7 in the embedment and edge distance schedule.

Note: The manufacturer's installation instructions and the approved drawings shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.